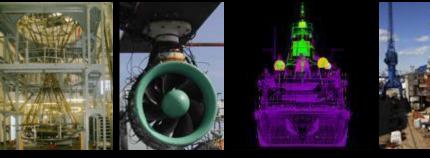
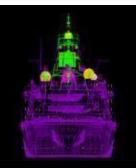


## Signatures Department

### Ensure a signatures advantage for Navy submarines, surface ships, and small craft through:

- Research and Development
- Testing and Evaluation
- **Engineering Applications**
- Fleet Support











Science and **Technology** 

Design and Requirements

**Acquisition and** Construction

**Fleet Training** and Simulation

**In-Service Testing** and Evaluation



## **Signatures Department Sites**



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## Signatures Characterization & Analysis Division 71

#### Direct Fleet Interaction! Help ships stay undetected!



#### **Technical Expertise in:**

- Underwater Acoustics Measurement & Analysis
- Vibration Transmission Path Analysis
- Machinery Vibration Diagnostics
- Life Cycle Assessment
- Fleet Support





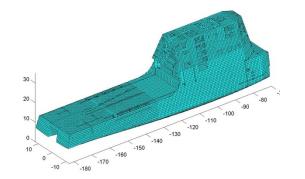
### **Acoustic Signatures Technology Division 72**

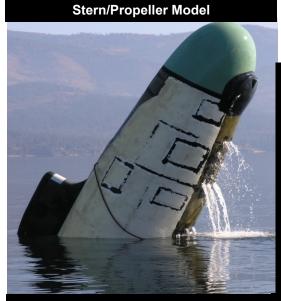
### Develop and Deliver Advanced Acoustic Silencing Solutions for the Fleet &

**Acquisition Communities** 

### **Technical Expertise In:**

- **Hydroacoustics**
- Structural Acoustics
- **Propulsor Acoustic Design**
- Advanced Acoustic Materials
- Acoustic Target Strength
- **Shipboard Airborne Noise and Vibration**
- Scale Model and Laboratory Acoustic Evaluation







**Dolly Varden 1:4 Scale Buoyant Vehicle** 

**Target Strength Predictive Model** 

Flow -Noise Studies



# Signatures Measurement Technologies & Systems Development Division 73

### Develop acoustic measurement systems and more...

**Expertise in Acoustic Measurement Technology forms the basis for our systems** 

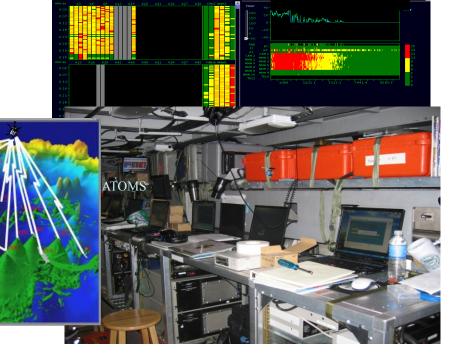
development capabilities and T&E programs

- Measurement Technology
- Sensor Technology
- Data acquisition Systems
- Advanced Signal Processing

**TUBA Program** 

- Synthetic Signature Generation
- Signatures Training and Guidance





**TSMS Program** 



## Topside Electromagnetic Signatures Division 74

### Bring radar and IR stealth technology to the fleet



#### **Technical Expertise In:**

- Research and Development (R&D)
- Modeling & Simulation (M&S)
- Test and Evaluation (T&E)
- Measurement system development
- Fleet Support



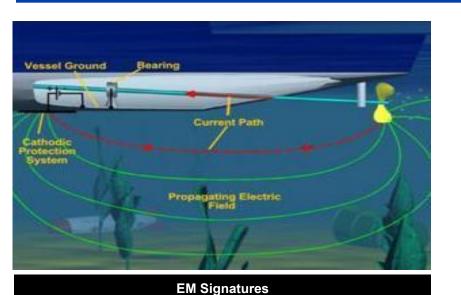








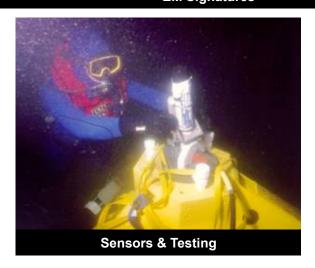
## Underwater Electromagnetic Signatures Division 75

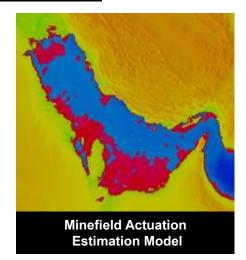


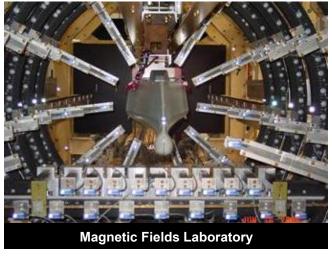
### Mines and Ships Don't Mix

#### **Technical Expertise In:**

- Fields Modeling/ Measurement
- Silencing systems design
- Advanced modeling & simulation
- Finite element analysis
- Electromagnetic R&D
- Sensor development
- Fleet support





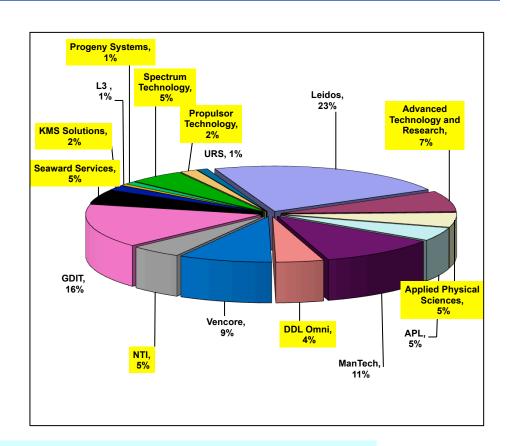


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### **Overview of Active Contracts**





Total Large Division Contractors = 16 10 Contractors are Small Business

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### **FY15 Competitive Requirements**

Brief Description	Anticipated Announcement Date (QTR/FY)	Incumbent Contractor
IDIQ services to support operations at the Acoustic Research Detachment in Bayview, ID.	2 <sup>nd</sup> Qtr. – FY15	General Dynamic Information Technology
Engineering services to support Magnetic Silencing Facilities and the Magnetic Fields Laboratory	3 <sup>rd</sup> Qtr FY15	New Requirement
Engineering and technical support services for acoustic recording, shaker vibration, ship control and signature analysis systems.	4 <sup>th</sup> Qtr FY15	DDL OMNI Engineering

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### **FY15 Competitive Requirements**

Brief Description	Anticipated Announcement Date (QTR/FY)	Incumbent Contractor
Engineering and technical services in support of submarine trials and SEAFAC and STAFAC site operations.	4 <sup>th</sup> Qtr FY15	Leidos
Engineering and technical services in support of the Acoustic Trials Program	4 <sup>th</sup> Qtr FY15	ManTech International
IDIQ services for Bangor Waterfront operations support	4 <sup>th</sup> Qtr FY15	ManTech International

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### **FY16 Competitive Requirements**

Brief Description	Anticipated Announcement Date (QTR/FY)	Incumbent Contractor
Engineering services for marine signatures, signature measurement systems, and advanced signal processing.	1st Qtr FY16	Vencore
Engineering services for ship signature control and signature mitigation.	1st Qtr FY16	Applied Physical Sciences